

Process and installation for the biological treatment of waste water containing nitrogen, especially for nitrification and/or denitrification.

Patent Number: EP0383674

Publication date: 1990-08-22

Inventor(s): DESBOS GILBERT; SIBONY JACQUES

Applicant(s): OMNIUM TRAITEMENT VALORISA (FR)

Requested Patent: Γ EP0383674, B1

Application

Number: EP19900400389 19900213

Priority Number(s): FR19890001886 19890214

IPC Classification: C02F3/30

EC Classification: C02F1/36, C02F1/38B, C02F3/10, C02F3/12E, C02F3/28C, B01D21/00

Equivalents: CA2010088, DE69000620D, DE69000620T, ES2036889T, Γ FR2643065, NO300838B,
NO900696, TR24711

Cited Documents: US4693827; US3855120; CH545254; GB2032904; EP0058974; JP59142897

Abstract

Process for the biological treatment of a waste water to be treated containing a nitrogenous contamination, according to which: - an incidental flow of this water is brought into a mixing zone with at least one compartment (A, A', A'') in which zone, using turbulent mechanical stirring, a relatively unconsumable and relatively insoluble granular material carrying biomass is placed in homogeneous suspension on this water and is maintained at a substantially constant mass concentration; - this water and this granular material in suspension are circulated through a separating zone (B, B', B'') from which there are extracted, on the one hand, clarified water and, on the other hand, the granular material carrying biomass; and - virtually all of the active biomass attached to the said granular material is returned by forced recycling

towards the mixing zone (A, A', A'').



Data supplied from the esp@cenet database - I2
